

0550
1207

#7

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/723,752

DATE: 12/14/2001
 TIME: 15:32:45

Input Set : N:\Crf3\RULE60\09723752.txt
 Output Set: N:\CRF3\12142001\I723752.raw

SEQUENCE LISTING

W--> 3 SEQUENCE LISTING

ENTERED

5 (1) GENERAL INFORMATION:

7 (i) APPLICANT: Baca, Manuel
 8 Wells, James A.
 9 Presta, Leonard G.
 10 Lowman, Henry B.
 11 Chen, Yvonne M.

13 (ii) TITLE OF INVENTION: ANTI-VEGF ANTIBODIES

15 (iii) NUMBER OF SEQUENCES: 131

17 (iv) CORRESPONDENCE ADDRESS:

18 (A) ADDRESSEE: Genentech, Inc.
 19 (B) STREET: 1 DNA Way
 20 (C) CITY: South San Francisco
 21 (D) STATE: California
 22 (E) COUNTRY: USA
 23 (F) ZIP: 94080

25 (v) COMPUTER READABLE FORM:

26 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 27 (B) COMPUTER: IBM PC compatible
 28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 29 (D) SOFTWARE: WinPatin (Genentech)

31 (vi) CURRENT APPLICATION DATA:

C--> 32 (A) APPLICATION NUMBER: US/09/723,752
 C--> 33 (B) FILING DATE: 27-Nov-2000

34 (C) CLASSIFICATION:

36 (vii) PRIOR APPLICATION DATA:

37 (A) APPLICATION NUMBER: 08/908,469
 38 (B) FILING DATE: 1997-08-06

40 (viii) ATTORNEY/AGENT INFORMATION:

41 (A) NAME: Cui, Steven X.
 42 (B) REGISTRATION NUMBER: 44,637
 43 (C) REFERENCE/DOCKET NUMBER: P1093P1

45 (ix) TELECOMMUNICATION INFORMATION:

46 (A) TELEPHONE: 650/225-8674
 47 (B) TELEFAX: 650/952-9881

48 (2) INFORMATION FOR SEQ ID NO: 1:

50 (i) SEQUENCE CHARACTERISTICS:
 51 (A) LENGTH: 10 amino acids
 52 (B) TYPE: Amino Acid
 53 (D) TOPOLOGY: Linear

55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

57 Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn

58 1 5 10

60 (2) INFORMATION FOR SEQ ID NO: 2:

62 (i) SEQUENCE CHARACTERISTICS:
 63 (A) LENGTH: 17 amino acids

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/723,752

DATE: 12/14/2001
TIME: 15:32:46

Input Set : N:\Crf3\RULE60\09723752.txt
Output Set: N:\CRF3\12142001\I723752.raw

64 (B) TYPE: Amino Acid
65 (D) TOPOLOGY: Linear
67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
69 Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Ala Asp Phe
70 1 5 10 15
72 Lys Arg
75 (2) INFORMATION FOR SEQ ID NO: 3:
77 (i) SEQUENCE CHARACTERISTICS:
78 (A) LENGTH: 14 amino acids
79 (B) TYPE: Amino Acid
80 (D) TOPOLOGY: Linear
82 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
84 Tyr Pro His Tyr Tyr Gly Ser Ser His Trp Tyr Phe Asp Val
85 1 5 10
87 (2) INFORMATION FOR SEQ ID NO: 4:
89 (i) SEQUENCE CHARACTERISTICS:
90 (A) LENGTH: 11 amino acids
91 (B) TYPE: Amino Acid
92 (D) TOPOLOGY: Linear
94 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
96 Ser Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
97 1 5 10
99 (2) INFORMATION FOR SEQ ID NO: 5:
101 (i) SEQUENCE CHARACTERISTICS:
102 (A) LENGTH: 7 amino acids
103 (B) TYPE: Amino Acid
104 (D) TOPOLOGY: Linear
106 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
108 Phe Thr Ser Ser Leu His Ser
109 1 5
111 (2) INFORMATION FOR SEQ ID NO: 6:
113 (i) SEQUENCE CHARACTERISTICS:
114 (A) LENGTH: 9 amino acids
115 (B) TYPE: Amino Acid
116 (D) TOPOLOGY: Linear
118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
120 Gln Gln Tyr Ser Thr Val Pro Trp Thr
121 1 5
123 (2) INFORMATION FOR SEQ ID NO: 7:
125 (i) SEQUENCE CHARACTERISTICS:
126 (A) LENGTH: 123 amino acids
127 (B) TYPE: Amino Acid
128 (D) TOPOLOGY: Linear
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
132 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
133 1 5 10 15
135 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr
136 20 25 30
138 Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/723,752

DATE: 12/14/2001
TIME: 15:32:46

Input Set : N:\Crf3\RULE60\09723752.txt
Output Set: N:\CRF3\12142001\I723752.raw

139	35	40	45
141	Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr	Gly Glu Pro Thr Tyr	
142	50	55	60
144	Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe	Ser Leu Asp Thr Ser	
145	65	70	75
147	Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser	Leu Arg Ala Glu Asp	
148	80	85	90
150	Thr Ala Val Tyr Tyr Cys Ala Lys Tyr	Pro His Tyr Tyr Gly Ser	
151	95	100	105
153	Ser His Trp Tyr Phe Asp Val Trp Gly	Gln Gly Thr Leu Val Thr	
154	110	115	120

156 Val Ser Ser

159 (2) INFORMATION FOR SEQ ID NO: 8:

161 (i) SEQUENCE CHARACTERISTICS:

162	(A) LENGTH: 108 amino acids
163	(B) TYPE: Amino Acid
164	(D) TOPOLOGY: Linear

166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

168	Asp Ile Gln Met Thr Gln Ser Pro Ser Ser	Leu Ser Ala Ser Val	
169	1 5	10	15
171	Gly Asp Arg Val Thr Ile Thr Cys Ser Ala	Ser Gln Asp Ile Ser	
172	20	25	30
174	Asn Tyr Leu Asn Trp Tyr Gln Gln Lys	Pro Gly Lys Ala Pro Lys	
175	35	40	45
177	Val Leu Ile Tyr Phe Thr Ser Ser Leu His	Ser Gly Val Pro Ser	
178	50	55	60
180	Arg Phe Ser Gly Ser Gly Thr Asp Phe	Thr Leu Thr Ile	
181	65	70	75
183	Ser Ser Leu Gln Pro Glu Asp Phe Ala	Thr Tyr Tyr Cys Gln Gln	
184	80	85	90
186	Tyr Ser Thr Val Pro Trp Thr Phe Gly	Gln Gly Thr Lys Val Glu	
187	95	100	105

189 Ile Lys Arg

192 (2) INFORMATION FOR SEQ ID NO: 9:

194 (i) SEQUENCE CHARACTERISTICS:

195	(A) LENGTH: 123 amino acids
196	(B) TYPE: Amino Acid
197	(D) TOPOLOGY: Linear

199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

201	Glu Ile Gln Leu Val Gln Ser Gly Pro Glu	Leu Lys Gln Pro Gly	
202	1 5	10	15
204	Glu Thr Val Arg Ile Ser Cys Lys Ala	Ser Gly Tyr Thr Phe Thr	
205	20	25	30
207	Asn Tyr Gly Met Asn Trp Val Lys Gln	Ala Pro Gly Lys Gly Leu	
208	35	40	45
210	Lys Trp Met Gly Trp Ile Asn Thr Tyr	Thr Gly Glu Pro Thr Tyr	
211	50	55	60
213	Ala Ala Asp Phe Lys Arg Arg Phe Thr	Phe Ser Leu Glu Thr Ser	
214	65	70	75

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/723,752

DATE: 12/14/2001

TIME: 15:32:46

Input Set : N:\Crf3\RULE60\09723752.txt
 Output Set: N:\CRF3\12142001\I723752.raw

216 Ala Ser Thr Ala Tyr Leu Gln Ile Ser Asn Leu Lys Asn Asp Asp
 217 80 85 90
 219 Thr Ala Thr Tyr Phe Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser
 220 95 100 105
 222 Ser His Trp Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr
 223 110 115 120
 225 Val Ser Ser
 228 (2) INFORMATION FOR SEQ ID NO: 10:
 230 (i) SEQUENCE CHARACTERISTICS:
 231 (A) LENGTH: 108 amino acids
 232 (B) TYPE: Amino Acid
 233 (D) TOPOLOGY: Linear
 235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 237 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu
 238 1 5 10 15
 240 Gly Asp Arg Val Ile Ile Ser Cys Ser Ala Ser Gln Asp Ile Ser
 241 20 25 30
 243 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys
 244 35 40 45
 246 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
 247 50 55 60
 249 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile
 250 65 70 75
 252 Ser Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln
 253 80 85 90
 255 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu
 256 95 100 105
 258 Ile Lys Arg
 261 (2) INFORMATION FOR SEQ ID NO: 11:
 263 (i) SEQUENCE CHARACTERISTICS:
 264 (A) LENGTH: 113 amino acids
 265 (B) TYPE: Amino Acid
 266 (D) TOPOLOGY: Linear
 268 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 270 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 271 1 5 10 15
 273 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
 274 20 25 30
 276 Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 277 35 40 45
 279 Glu Trp Val Ser Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr
 280 50 55 60
 282 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
 283 65 70 75
 285 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 286 80 85 90
 288 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Phe Asp Tyr Trp Gly Gln
 289 95 100 105
 291 Gly Thr Leu Val Thr Val Ser Ser

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/723,752

DATE: 12/14/2001

TIME: 15:32:46

Input Set : N:\Crf3\RULE60\09723752.txt
Output Set: N:\CRF3\12142001\I723752.raw

292 110
294 (2) INFORMATION FOR SEQ ID NO: 12:
296 (i) SEQUENCE CHARACTERISTICS:
297 (A) LENGTH: 108 amino acids
298 (B) TYPE: Amino Acid
299 (D) TOPOLOGY: Linear
301 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
303 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
304 1 5 10 15
306 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
307 20 25 30
309 Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
310 35 40 45
312 Leu Leu Ile Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser
313 50 55 60
315 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
316 65 70 75
318 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
319 80 85 90
321 Tyr Asn Ser Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
322 95 100 105
324 Ile Lys Arg
327 (2) INFORMATION FOR SEQ ID NO: 13:
329 (i) SEQUENCE CHARACTERISTICS:
330 (A) LENGTH: 107 amino acids
331 (B) TYPE: Amino Acid
332 (D) TOPOLOGY: Linear
334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
336 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
337 1 5 10 15
339 Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser
340 20 25 30
342 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
343 35 40 45
345 Leu Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
346 50 55 60
348 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
349 65 70 75
351 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
352 80 85 90
354 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
355 95 100 105
357 Ile Lys
360 (2) INFORMATION FOR SEQ ID NO: 14:
362 (i) SEQUENCE CHARACTERISTICS:
363 (A) LENGTH: 123 amino acids
364 (B) TYPE: Amino Acid
365 (D) TOPOLOGY: Linear
367 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/723,752

DATE: 12/14/2001

TIME: 15:32:47

Input Set : N:\Crf3\RULE60\09723752.txt
Output Set: N:\CRF3\12142001\I723752.raw

L:3 M:244 W: Invalid beginning of sequence listing, Data=[SEQUENCE LISTING], Duplicate Sequence Listing Title!
L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:2469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119
L:2481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:2496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:2520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123
L:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125
L:2556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126
L:2592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127
L:2595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127
L:2607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127
L:2649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130
L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131